## What is claimed is:

| 1 | 1.                   | A method of performing packet-based communications in a wireless          |  |
|---|----------------------|---|--|
| 2 | network, comprising: |   |  |
| 3 |                      | establishing a connection over a wireless link between a mobile station   |  |
| 4 | and a radio ac       | cess network system;  |  |
| 5 |                      | transmitting data in the connection;                                      |  |
| 6 |                      | waiting a predetermined time delay period after end of data transmission; |  |
| 7 | and                  |   |  |
| 8 |                      | starting a procedure to release the connection after the predetermined    |  |
| 9 | delay period.        |   |  |
|   |                      |   |  |
| 1 | 2.                   | The method of claim 1, wherein starting the procedure comprises sending   |  |
| 2 | an indication        | that the end of data transmission has occurred.                           |  |
|   | 2                    | TI  |  |
| 1 | 3.                   | The method of claim 2, wherein sending the indication comprises sending   |  |
| 2 | a message co         | ntaining a flag set to a predetermined state.                             |  |
| 1 | 4.                   | The method of claim 2, further comprising:                                |  |
| 2 |                      | receiving an acknowledgement of the indication; and                       |  |
| 3 |                      | releasing the connection.   |  |
|   |                      |   |  |
| 1 | 5.                   | The method of claim 4, wherein releasing the connection comprises         |  |
| 2 | releasing a te       | mporary block flow in a General Packet Radio Service network.             |  |
| 1 | 6.                   | The method of claim 4, wherein releasing the connection comprises         |  |
| 2 |                      | egical connection.  |  |
| 4 | releasing a lo       | gioui comicoucii.   |  |
| 1 | 7.                   | The method of claim 6, wherein releasing the logical connection           |  |
| 2 | comprises rel        | leasing one of plural logical connections assigned on a physical channel. |  |

| 1 | 8.  | The method of claim 1, wherein the waiting and starting acts are         |  |
|---|---|--|--|
| 2 | the mobile station.   |  |  |
| 1 | 9.  | The method of claim 1, wherein the waiting and starting acts are         |  |
| 2 | performed in the radio access network system.   |  |  |
| 1 | 10.   | The method of claim 1, further comprising detecting the end of data      |  |
| 2 | transmission.   |  |  |
| 1 | 11.   | The method of claim 10, wherein detecting the end of data transmission   |  |
| 2 | comprises detecting a send data buffer not containing data for transmission on the        |  |  |
| 3 | connection.   |  |  |
| 1 | 12.   | The method of claim 1, further comprising starting a timer to wait the   |  |
| 2 | predetermine  | d time period.   |  |
| 1 | 13.   | The method of claim 1, wherein establishing the connection comprises     |  |
| 2 | establishing a  | a temporary block flow in a General Packet Radio Service network.        |  |
| 1 | 14.   | A system for communication in a wireless network, comprising:            |  |
| 2 |   | an interface to a wireless link;   |  |
| 3 |   | a control module adapted to establish a connection on the wireless link  |  |
| 4 | with a peer system; and   |  |  |
| 5 |   | a delay element,   |  |
| 6 |   | the control module adapted to further detect end of data transmission on |  |
| 7 | the connection and to wait a delay period provided by the delay element before starting a |  |  |
| 8 | procedure to release the connection.  |  |  |

15. The system of claim 14, wherein the delay element comprises a timer.

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- 1 16. The system of claim 14, further comprising a radio link control/medium 2 access control layer comprising the control module.
- 1 17. The system of claim 14, wherein the control module is adapted to establish 2 a temporary block flow, the connection comprising the temporary block flow.
- 1 18. The system of claim 14, comprising a mobile station.
- 1 19. The system of claim 14, comprising a base station system.
  - 20. The system of claim 14, further comprising a send buffer, the control module adapted to detect end of data transmission when the send buffer does not have data for transmission on the connection.
  - 21. The system of claim 14, wherein the control module is adapted to start the procedure to release the connection by sending an indication of the end of data transmission.
  - 22. The system of claim 21, wherein the indication comprises a flag having a predetermined state in a data block.
- 1 23. The system of claim 21, wherein the control module is adapted to further 2 wait for an acknowledgment of the indication before releasing the connection.
- 1 24. The system of claim 14, wherein the control module is adapted to establish 2 a General Packet Radio Service connection.

| 1 | 25.                                      | An article comprising at least one storage medium containing instruction |
|---|--|--|
| 2 | for performin                            | ng packet-based communications in a wireless network, the instructions   |
| 3 | when executed causing a first system to: |  |
| 4 |  | establish a connection between the first system and a peer system over a |
| 5 | wireless link;                           | ; and  |
| 6 |  | wait a predetermined time period at the end of data transmission before  |
| 7 | providing an                             | indication of the end of data transmission.                              |

- 26. The article of claim 25, wherein the instructions when executed cause the first system to further detect a data buffer being empty, wherein waiting the predetermined time period is performed after detecting the data buffer is empty.
  - 27. The article of claim 26, wherein the instructions when executed cause the first system to detect the data buffer is empty by detecting a radio link control/medium access control send buffer being empty.
  - 28. The article of claim 25, wherein the instructions when executed cause the first system to wait the predetermined time period by starting a timer.
  - 29. The article of claim 28, wherein the instructions when executed cause the first system to start the timer by starting the timer in a mobile station, the first system comprising the mobile station.
- 30. The article of claim 28, wherein the instructions when executed cause the first system to start the timer by starting the timer in a base station system, the first system comprising the base station system.
- 31. The article of claim 25, wherein the instructions when executed cause the first system to establish the connection by establishing a temporary block flow.

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| 1 | 32.   | The article of claim 25, wherein the instructions when executed cause the   |
|---|---|---|
| 2 | first system to                             | further release the connection in response to the indication.               |
| 1 | 33.   | The article of claim 32, wherein the instructions when executed cause the   |
| 2 | first system to                             | release the connection by releasing a temporary block flow.                 |
| 1 | 34.   | A first system, comprising:   |
| 2 |   | means for establishing a connection over a wireless link with a second      |
| 3 | system;                                     |   |
| 4 |   | means for detecting an end of data transmission; and                        |
| 5 |   | means for waiting a predetermined time period before providing an           |
| 6 | indication of the end of data transmission. |   |
| 1 | 35.   | A data signal embodied in a carrier wave and comprising instructions that   |
| 2 | when executed cause a first system to:      |   |
| 3 |   | detect end of data transmission over a connection established on a wireless |
| 4 | link;                                       |   |
| 5 |   | start a delay period after detecting the end of data transmission; and      |
| 6 |   | start a procedure to release the connection after the delay period.         |